

I CLAIM AS MY INVENTION:

1. A gradient coil for a magnetic resonance tomography apparatus comprising:

a carrier plate;

a spiral coil disposed on said carrier plate at a first level relative to said carrier plate;

said coil having an inner conductor feed section and an outer conductor feed section, said inner conductor feed section being disposed at a second level, separated from said first level, relative to said carrier plate, and said spiral coil with said inner and outer feed conductor sections forming a continuous, unitary electrical conductor; and

said inner conductor feed section being disposed outside of said carrier plate.

2. A gradient coil as claimed in claim 1 wherein said first level is a plane.

3. A gradient coil as claimed in claim 1 wherein said first level is a cylindrical surface.

4. A method for producing a gradient coil for a magnetic resonance tomography apparatus comprising the steps of:

providing a winding plate having a continuous groove therein in the form of a spiral disposed in a first plane;

inserting a portion of a continuous electrical conductor into said groove for causing said continuous electrical conductor to follow said groove along said conductor path to generate a conductor arrangement formed as a spiral coil in said first plane;

adhering said spiral coil to a carrier plate;

lifting the carrier plate from said winding plate; and

bending a portion of said continuous electrical conductor remaining in a center of said spiral coil into a second plane, thereby forming a radial inner conductor feed section.

5. A method as claimed in claim 4 comprising rolling said spiral coil to form a hollow cylinder having a cylinder axis, and aligning said inner conductor feed section parallel to said cylinder axis.

6. A method for producing a gradient coil for a magnetic resonance tomography apparatus comprising the steps of:

providing a winding plate having a predetermined groove in a first plane, and a predetermined spiral-shaped groove proceeding outwardly from a center and being disposed in a second plane, said first plane being disposed below said second plane;

inserting a continuous electrical conductor into said predetermined groove and into said spiral-shaped groove and thereby forming, in said predetermined groove, a radial inner conductor feed section in said first plane and forming, in said spiral-shaped groove, a spiral coil in said second plane, said spiral coil and said inner conductor feed section forming a conductor arrangement;

adhering said conductor arrangement to a carrier plate adhering said conductor arrangement to a carrier plate disposed on said winding plate; and

lifting said carrier plate together with said conductor arrangement off of said carrier plate.

7. A method as claimed in claim 6 comprising rolling said spiral coil to form a hollow cylinder having a cylinder axis, and aligning said inner conductor feed section parallel to said cylinder axis.